

CLAIMS

1. A character display apparatus for displaying a character  
on a screen based on stroke data containing character  
5 information, comprising:

a control section for setting a color element level  
for a subpixel overlapping a basic portion of the character,  
based on both or either a distance between a center of the  
subpixel and at least one dot contained in a stroke or a  
10 line width set for the stroke.

2. A character display apparatus according to claim 1,  
wherein the at least one dot contained in the stroke has  
the same X-coordinate value as the center of the subpixel.  
15

3. A character display apparatus according to claim 1,  
wherein the control section sets a smaller color element  
level of the subpixel as the distance is increased.

20 4. A character display apparatus according to claim 1,  
wherein the control section sets the color element level  
of the subpixel based on a line width in at least one of  
an X direction and a Y direction set for the stroke.

25 5. A character display apparatus according to claim 1,

wherein the control section sets the color element level of the subpixel to a predetermined value when the distance is within a predetermined range.

5      6. A character display apparatus according to claim 1,  
comprising a display section comprising a plurality of  
display pixels arranged in a matrix on the screen, each of  
the plurality of display pixels comprising a plurality of  
the subpixels arranged in a predetermined direction and  
10      associated with a plurality of respective color elements,  
         wherein the control section controls display of the  
character on the screen by controlling levels of the plurality  
of color elements associated with the plurality of subpixels  
based on the stroke data separately.

15  
7. A character display apparatus according to claim 1,  
comprising a storage section storing a table associating  
at least one of the distance between the center of the subpixel  
and the at least one dot contained in the stroke and the  
20      line width set for the stroke with the color element level  
of the subpixel,

         wherein the control section sets the color element  
level of the subpixel based on information contained in the  
table.

25

8. A character display apparatus according to claim 1,  
wherein the control section sets a color element level for  
a subpixel near the subpixel having the set color element  
level based on a distance between the subpixels and the set  
5 color element level.

9. A character display apparatus according to claim 8,  
comprising a storage section storing a table associating  
the distance between the subpixel having the set color element  
10 level and the near subpixel and the set color element level  
with the color element level of the near subpixel,

wherein the control section sets the color element  
level of the near subpixel based on information contained  
in the table.

15

10. A character display apparatus according to claim 1,  
wherein the stroke data is skeleton data representing a  
skeletal shape of the character or character contour  
information representing a contour shape of the character.

20

11. A character display apparatus for displaying a character  
based on stroke data containing character information,  
comprising:

a control section for setting a color element level  
25 for a subpixel within a predetermined range based on both

or either a distance between a center of the subpixel and at least one dot contained in a stroke or a line width set for the stroke.

- 5      12. A character display apparatus according to claim 11, wherein the control section sets the color element level of the subpixel within the predetermined range based on a predetermined table defining the color element level of the subpixel within the predetermined range and the distance.
- 10
13. A character display apparatus according to claim 11, wherein the at least one dot contained in the stroke has the same X-coordinate value as the center of the subpixel.
- 15      14. A character display apparatus according to claim 11, wherein the control section sets a smaller color element level of the subpixel as the distance is increased.
- 20      15. A character display apparatus according to claim 11, wherein the control section sets the color element level of the subpixel based on a line width in at least one of an X direction and a Y direction set for the stroke.
- 25      16. A character display apparatus according to claim 11, wherein the control section sets the color element level

of the subpixel to a predetermined value when the distance is within a predetermined range.

17. A character display apparatus according to claim 11,  
5 comprising a display section comprising a plurality of display pixels arranged in a matrix on the screen, each of the plurality of display pixels comprising a plurality of the subpixels arranged in a predetermined direction and associated with a plurality of respective color elements,  
10 wherein the control section controls display of the character on the screen by controlling levels of the plurality of color elements associated with the plurality of subpixels based on the stroke data separately.

18. A character display apparatus according to claim 11,  
15 comprising a storage section storing a table associating at least one of the distance between the center of the subpixel and the at least one dot contained in the stroke and the line width set for the stroke with the color element level  
20 of the subpixel,  
wherein the control section sets the color element level of the subpixel based on information contained in the table.

25 19. A character display apparatus according to claim 11,

wherein the control section sets a color element level for a subpixel near the subpixel having the set color element level based on a distance between the subpixels and the set color element level.

5

20. A character display apparatus according to claim 19, comprising a storage section storing a table associating the distance between the subpixel having the set color element level and the near subpixel and the set color element level with the color element level of the near subpixel,

10

wherein the control section sets the color element level of the near subpixel based on information contained in the table.

15

21. A character display apparatus according to claim 11, wherein the stroke data is skeleton data representing a skeletal shape of the character or character contour information representing a contour shape of the character.

20

22. A character display method for displaying a character based on stroke data containing character information, comprising both or either the step of obtaining a distance between a center of a subpixel overlapping a basic portion of the character, and at least one dot contained in a stroke,

25

or the step of obtaining a line width set for the stroke,

and the step of setting a color element level for the subpixel based on both or either the obtained distance or the line width.

5     23. A character display program for causing a computer to execute the steps of a character display method according to claim 22.

10    24. A computer readable recording medium, recording a character display program according to claim 23.

15    25. A character display method for displaying a character on a screen based on stroke data containing character information, comprising both or either the step of obtaining a distance between a center of a subpixel within a predetermined range, and at least one dot contained in a stroke, or the step of obtaining a line width set for the stroke, and the step of setting a color element level for the subpixel based on both or either the obtained distance  
20    or the line width.

26. A character display program for causing a computer to execute the steps of a character display method according to claim 25.

25

27. A computer readable recording medium, recording a character display program according to claim 26.